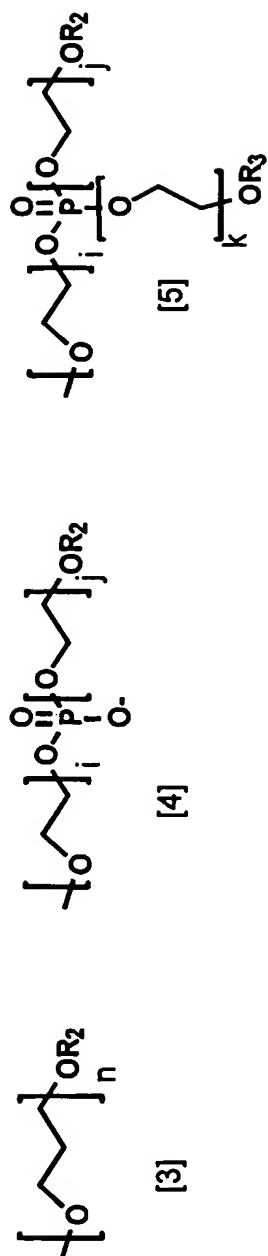


FIG. 1



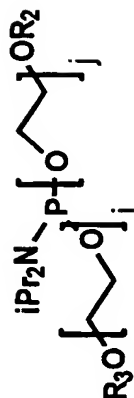
$\text{R}_1 = \text{CH}_2\text{CH}_2\text{CN}, \text{CH}_3$
 $\text{R}_2 = \text{CH}_3, \text{alkyl}, \text{phenyl}, \text{CONH}_2$
 $n = 1 - 20$
 $\text{X} = \text{NH}, \text{S}$

FIG. 2



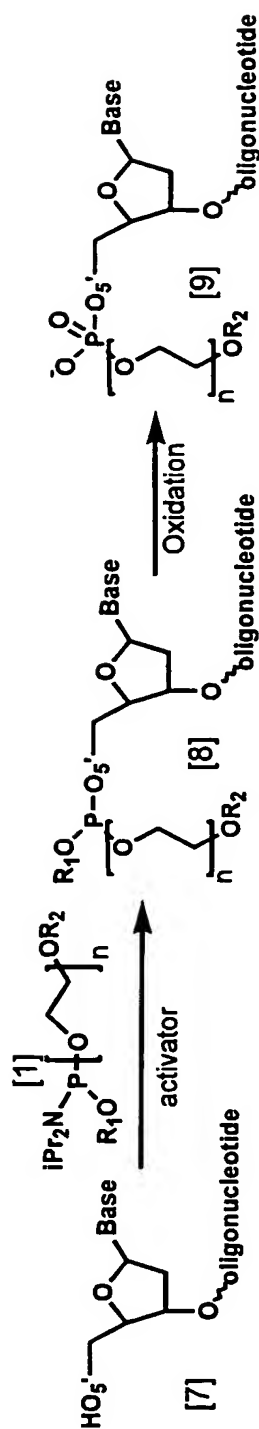
$\text{R}_2 = \text{CH}_3, \text{alkyl, phenyl, CONH}_2$
 $n, i, j = 1 - 20$

FIG. 3



$\text{R}_2, \text{R}_3 = \text{CH}_3, \text{alkyl, phenyl, CONH}_2$
 $i, j = 1 - 20$

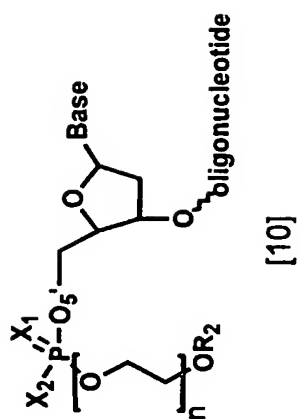
FIG. 4



activator: tetrazole; Oxidation: $\text{I}_2/\text{H}_2\text{O}$;

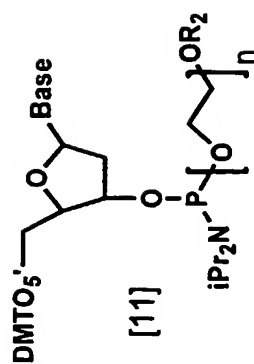
$\text{R}_1 = \text{CH}_2\text{CH}_2\text{CN}$
 $\text{R}_2 = \text{CH}_3, \text{alkyl, phenyl, CONH}_2$
 $n = 1 - 20$

FIG. 5



$X_1, X_2 = O, S$
 $R_2 = CH_3, \text{alkyl, phenyl, } CONH_2$
 $n = 1 - 20$

FIG. 6



$R_2 = \text{CH}_3, \text{alkyl, phenyl, CONH}_2$
 $n = 1 - 20$

FIG. 7

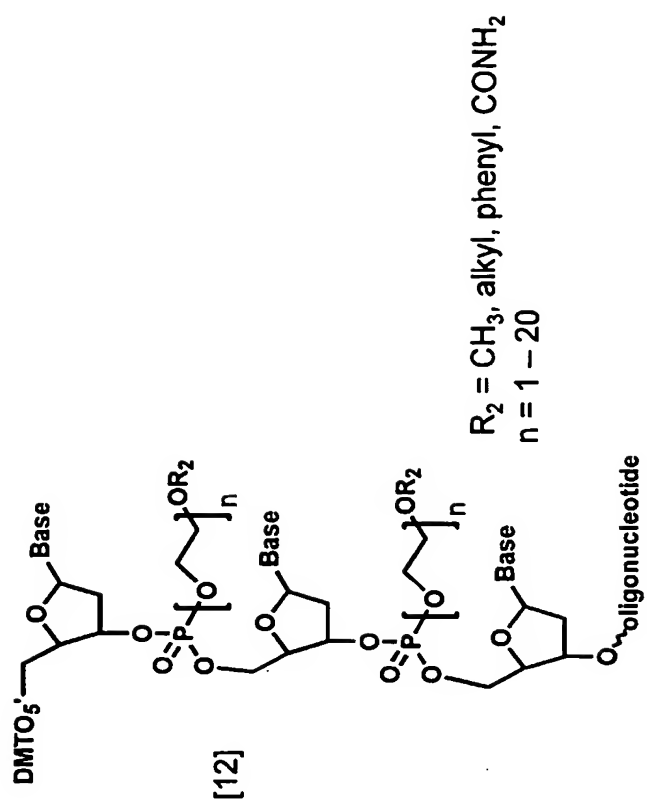
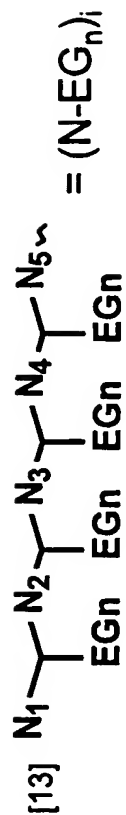
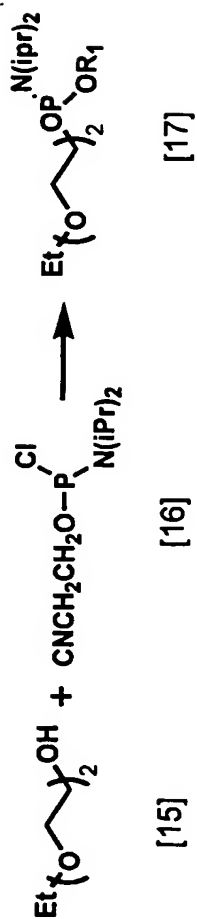


FIG. 8



$R_2 = CH_3$, alkyl, phenyl, $CONH_2$, $n = 1 - 20$; $i, j = 1 - 20$
 $EG = CH_2CH_2O$, N_1, N_2, \dots, N_i are nucleotide residues

FIG. 9



$\text{R}_1 = \text{CH}_2\text{CH}_2\text{CN}$, $\text{iPr} = \text{isopropyl}$, $\text{Et} = \text{ethyl}$

FIG. 10

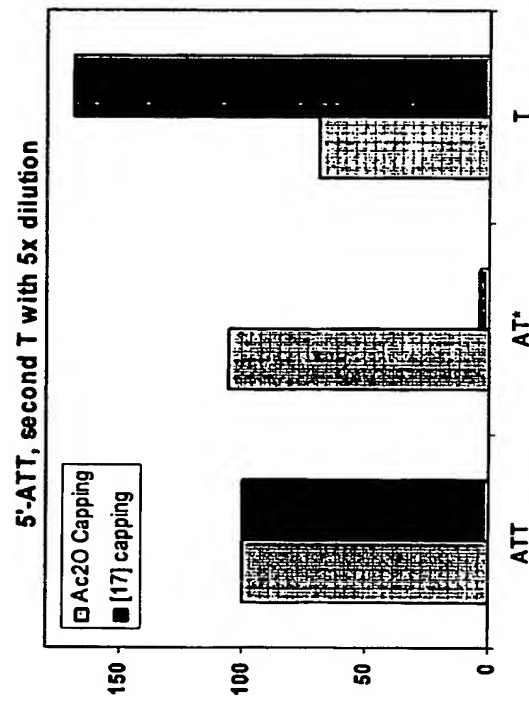


FIG 11

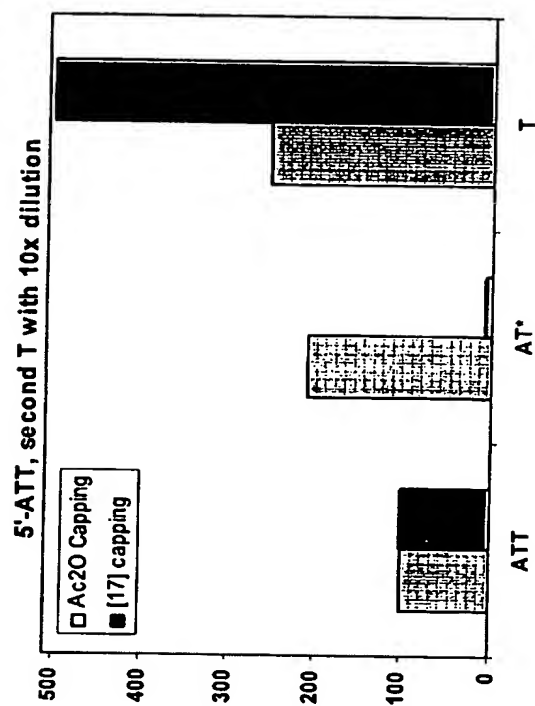


FIG 12

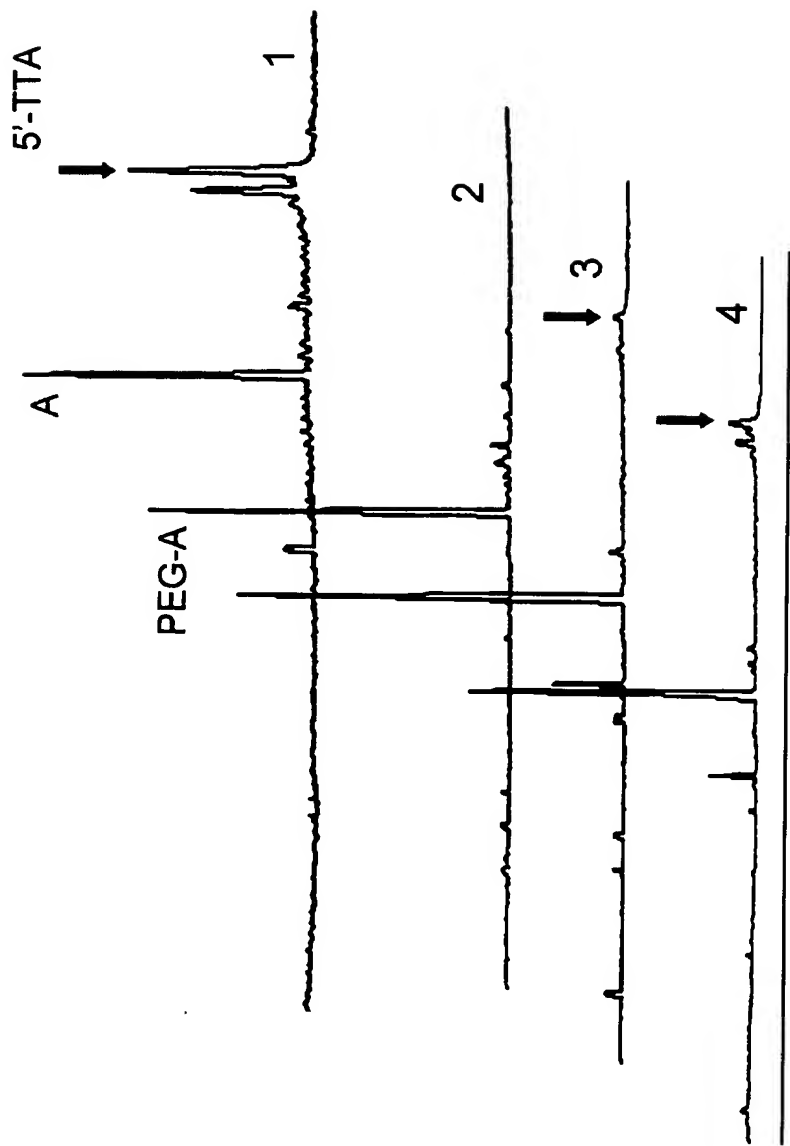


FIG 13

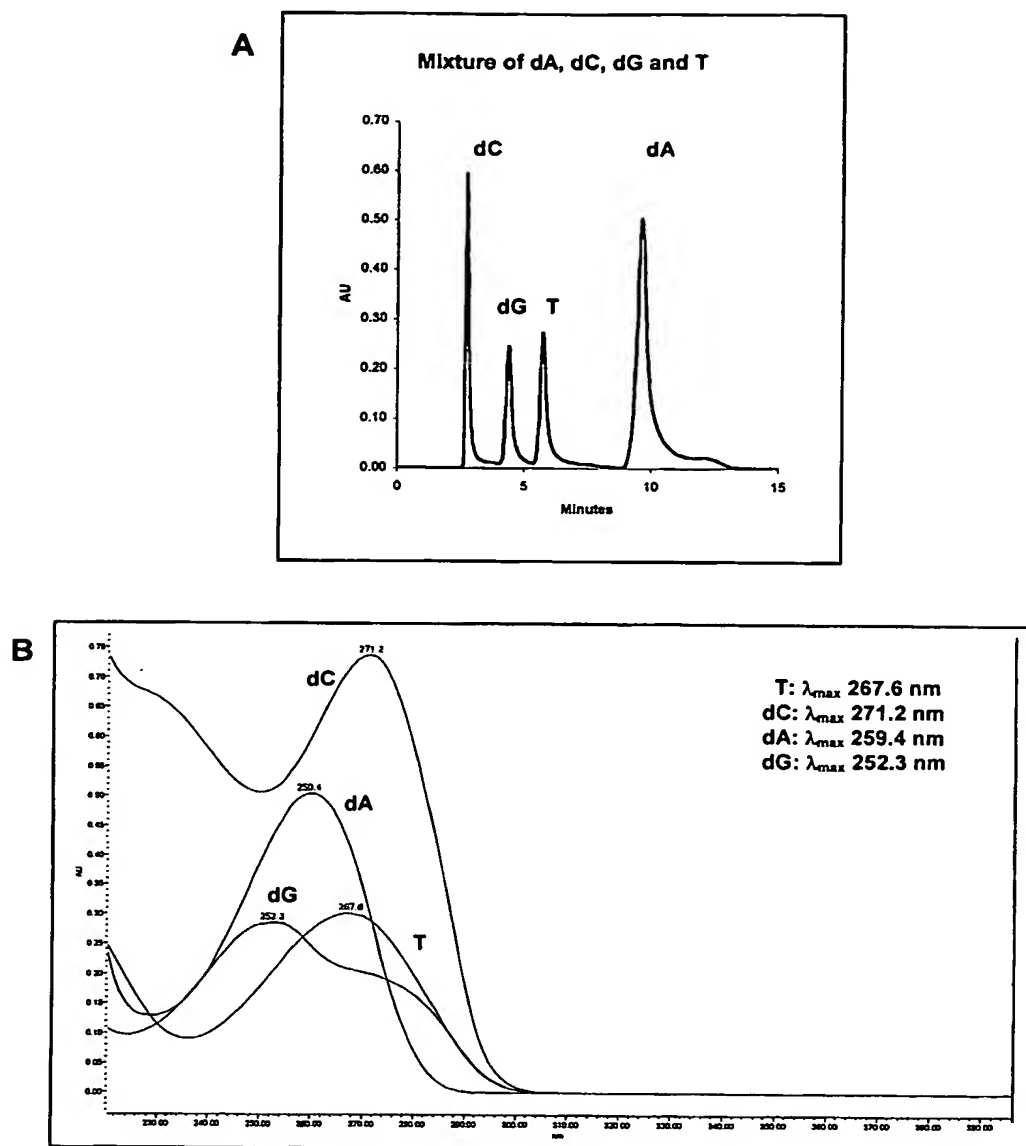


FIG. 14

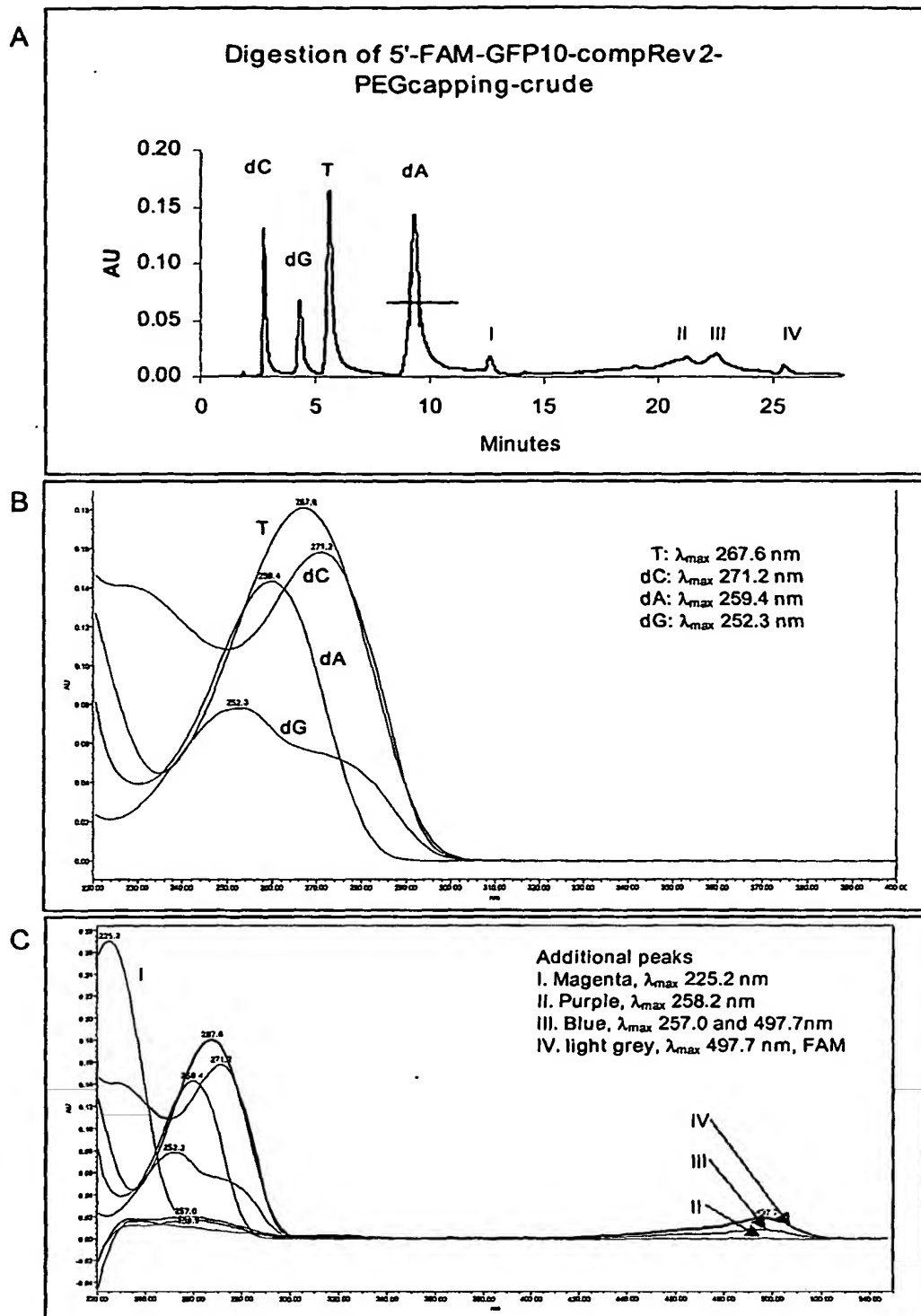


FIG. 15

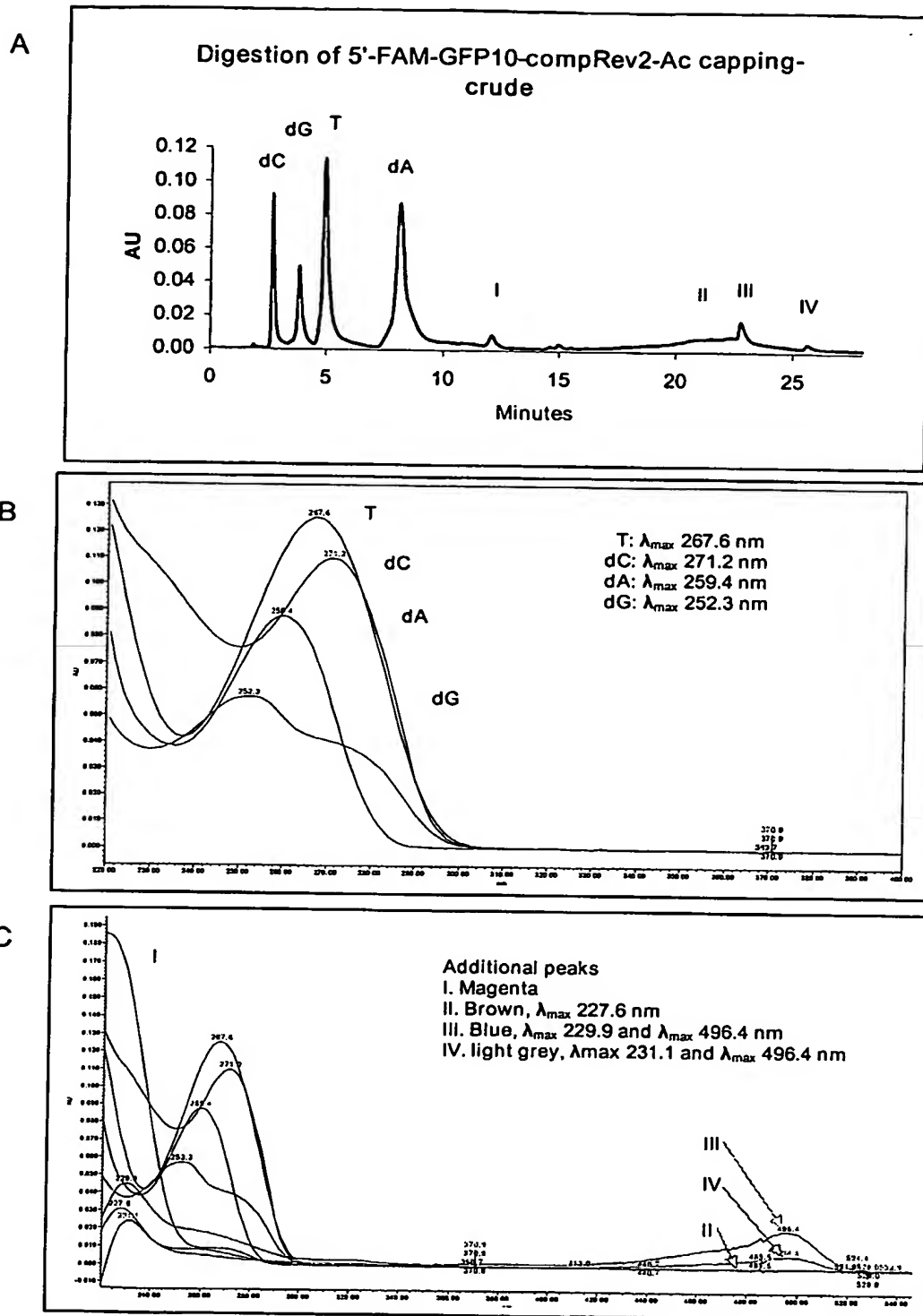


FIG. 16

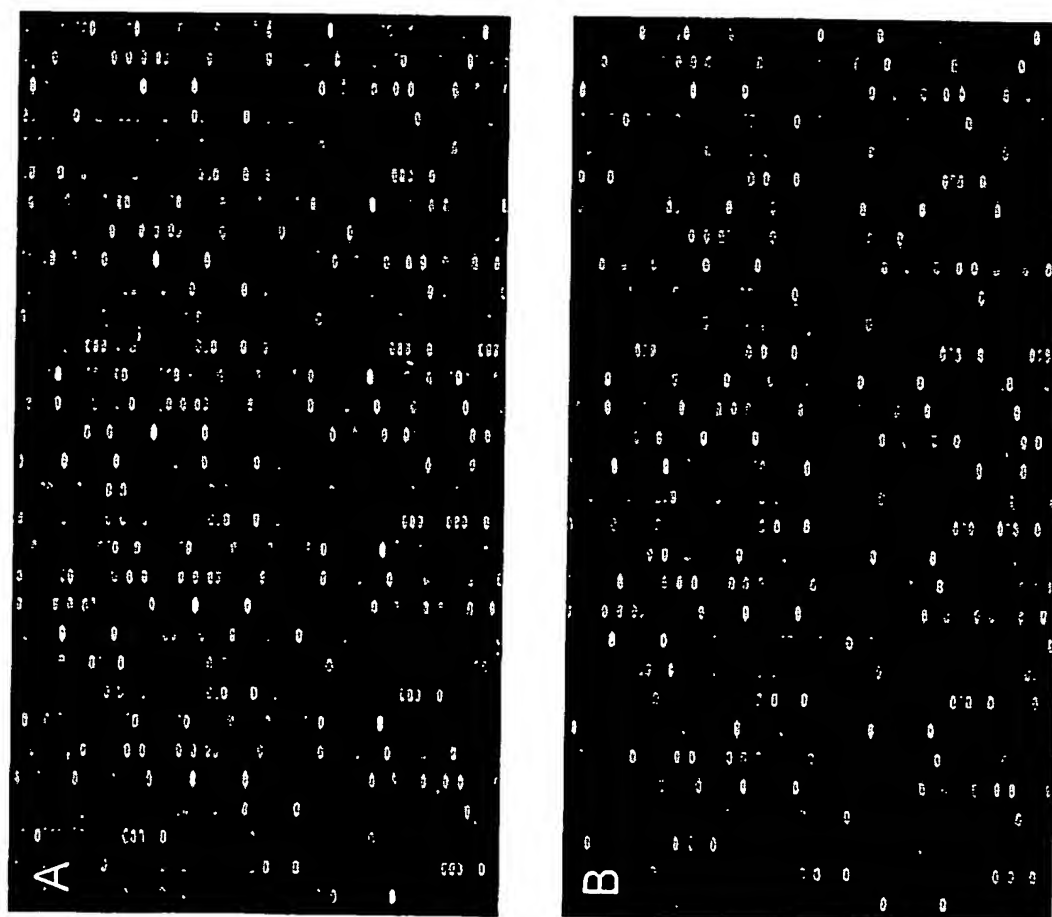


FIG 17

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